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Applicant: Bratcher et al.
Serial No.: 10/781,448
Filed: February 18, 2004
For: Flexible Processing Apparatus For Isolating And Purifying
Viruses, Soluble Proteins And Peptides From Plant Sources
Group No. Not yet assigned
Attorney's Docket No. N9911
Customer No. 34309

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

During the prosecution of the parent application Serial No. 09/970,150 Applicant filed the following listed Information Disclosure Statements and Forms PTO-1449, and received the following listed Form PTO-892 from the Patent and Trademark Office, copies of which are attached hereto. Copies of the cited references are not being enclosed since they are available in the parent file.

1. Information Disclosure Statement and Form PTO-1449 dated January 14, 2002.
2. Supplemental Information Disclosure Statement and Form PTO-1449 dated May 1, 2003.
3. Supplemental Information Disclosure Statement and Form PTO-1449 dated April 16, 2004.
4. Form PTO-1449 date stamped May 6, 2003 by Patent and

Trademark Office.

5. Form PTO-1449 date stamped January 29, 2002 by Patent and Trademark Office.
6. Notice of References Cited Form PTO-892, Part of Paper No. 1904.

A new Form PTO-1449 listing all of the references is included for the Examiner's convenience.

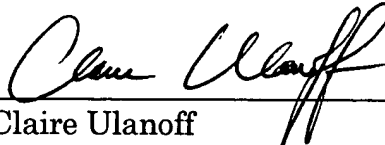
Respectfully submitted,



Lucian Wayne Beavers
Registration No. 28,183
WADDEY & PATTERSON
A Professional Corporation
414 Union Street, Suite 2020
Bank of America Plaza
Nashville, TN 37219
(615) 242-2400
Attorneys for Applicant

CERTIFICATE OF FIRST CLASS MAILING

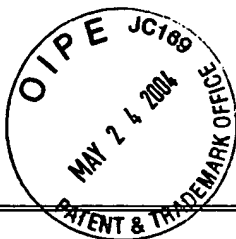
I hereby certify that this Information Disclosure Statement is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on ~~April 16~~, 2004.
MAY 19,



Claire Ulanoff

5-19-04

Date

Comparable to
Form PTO-1449U.S. Department of Commerce
Patent & Trademark Office

Atty. Docket No.

N9911

Customer No. 34309

Serial No.

10/781,448

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant

Bratcher et al.

Filing Date

February 18, 2004

Group

Unknown

Examiner Initial	Document No.	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,268,632	May 19, 1981	Wildman et al.	435	232	
	4,333,871	Jun. 8, 1982	De Jong	260	112	
	4,347,324	Aug. 31, 1982	Wildman et al.	435	232	
	4,540,490	Sep. 10, 1985	Shibata et al.	210	323.2	
	4,632,318	Dec. 30, 1986	Hyuga	241	37	
	4,941,484	Jul. 17, 1990	Clapp et al.	131	297	
	4,966,576	Oct. 30, 1990	Schulz et al.	494	56	
	5,121,757	Jun. 16, 1992	White et al.	131	297	
	5,131,414	Jul. 21, 1992	Fagg et al.	131	297	
	5,267,937	Dec. 7, 1993	Zettier et al.	494	56	
	5,377,698	Jan. 3, 1995	Litzinger et al.	131	370	
	5,676,631	Oct. 14, 1997	Kunz et al.	494	71	
	5,765,570	Jun. 16, 1998	Litzinger et al.	131	370	
	5,795,477	Aug. 18, 1998	Herman et al.	210	360.1	
	5,865,719	Feb. 2, 1999	Droste et al.	494	27	
	5,899,845	May 4, 1999	Kohlstette et al.	494	37	
	6,083,293	Jul. 4, 2000	Bath	71	16	
	6,106,715	Aug. 22, 2000	Thalmann et al.	210	321.83	
	6,037,456	March 14, 2000	Garger et al.	530	412	
	4,907,167	March, 1990	Skeirik	700	10	
	5,993,795	Nov., 1999	Osawa et al.	424	74	

MISCELLANEOUS DOCUMENTS

	Samuel Wildman, "An Alternate Use For Tobacco Agriculture: Proteins For Food Plus A Safer Smoking Material" in <u>Plants: The Potentials For Extracting Protein, Medicines And Other Useful Chemicals - Workshop Proceedings</u> (U.S. Congress, Office of Technology Assessment, OTA-BP-23, Washington, DC, September 1983).
	L. Jervis and W.S. Pierpoint (1989) Purification technologies for plant proteins, <u>Jour. Of Biotechnology</u> 11:161-198.
	US 2002/0088024 A1 Patent Application Publication, Garger et al., Pub. Date Jul. 4, 2002.
	Lamsal et al., Separation of Protein Fractions in Alfalfa Juice: Effects of Some Pre-treatment Methods. TEKRAN. Published September 6, 2002 by the United States Department of Agriculture Agricultural Research Service.
	Project Progress Report - Chemical Efficiency of the Pilot Plant in Owensboro - Part IV; Author Jan Arnarp, October 11, 1995.
	FOU Report No. 96/01 - Chemical Efficiency of the Pilot Plant in Owensboro - Part IV by Jan Arnarp, August 29, 1996.
	NEW RIVERSIDE UNIVERSITY DICTIONARY, Published by The Riverside Publishing Company and Houghton Mifflin Company, One Beacon Street, Boston, MA 02108, USA (1984), page 589.

Examiner:

Date Considered

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bratcher et al.
Serial No.: 09/970,150
Filed: October 3, 2001
For: Flexible Processing Apparatus for Isolating and Purifying
Viruses, Soluble Proteins and Peptides from Plant Sources
Attorney's Docket No. N-7815

INFORMATION DISCLOSURE STATEMENT

To The Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

Applicants and their attorneys are aware of the prior art references listed on
the enclosed Form PTO-1449. Copies of the cited references are also enclosed.

Respectfully submitted,

Lucian Wayne Beavers
Registration No. 28,183
WADDEY & PATTERSON
414 Union Street, Suite 2020
Bank of America Plaza
Nashville, TN 37219
(615) 242-2400
Attorneys for Applicant



CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT, Form PTO-1449 and copies of cited references are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents
Washington, DC 20231

on Jan. 14, 2002

Lucian Wayne Beavers

Signature

Registration Number 28,183

Jan. 14, 2002
DATE

Comparable to
Form PTO-1449U.S. Department of Commerce
Patent & Trademark Office

Atty. Docket No.

Serial No.

N-7815

09/970,150

Applicant

Bratcher et al.

Filing Date

October 3, 2001

Group

Unknown

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Examiner Initial	Document No.	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,268,632	May 19, 1981	Wildman et al.	435	232	
	4,333,871	Jun. 8, 1982	De Jong	260	112	
	4,347,324	Aug. 31, 1982	Wildman et al.	435	232	
	4,540,490	Sep. 10, 1985	Shibata et al.	210	323.2	
	4,632,318	Dec. 30, 1986	Hyuga	241	37	
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	4,966,576	Oct. 30, 1990	Schulz et al.	494	56	
	5,121,757	Jun. 16, 1992	White et al.	131	297	
	5,131,414	Jul. 21, 1992	Fagg et al.	131	297	
	5,267,937	Dec. 7, 1993	Zettier et al.	494	56	
	5,377,698	Jan. 3, 1995	Litzinger et al.	131	370	
	5,676,631	Oct. 14, 1997	Kunz et al.	494	71	
	5,765,570	Jun. 16, 1998	Litzinger et al.	131	370	
	5,795,477	Aug. 18, 1998	Herman et al.	210	360.1	
	5,865,719	Feb. 2, 1999	Droste et al.	494	27	
	5,899,845	May 4, 1999	Kohlstette et al.	494	37	
	6,083,293	Jul. 4, 2000	Bath	71	16	
	6,106,715	Aug. 22, 2000	Thalmann et al.	210	321.83	

MISCELLANEOUS DOCUMENTS

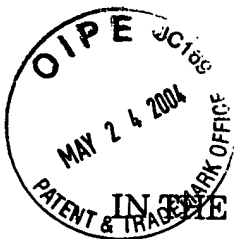
Samuel Wildman, "An Alternate Use For Tobacco Agriculture: Proteins For Food Plus A Safer Smoking Material" in Plants: The Potentials For Extracting Protein, Medicines And Other Useful Chemicals - Workshop Proceedings (U.S. Congress, Office of Technology Assessment, OTA-BP-23, Washington, DC, September 1983).

L. Jervis and W.S. Pierpoint (1989) Purification technologies for plant proteins, Jour. of Biotechnology 11:161-198.

Examiner:

Date Considered

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bratcher et al.
Serial No.: 09/970,150
Filed: October 3, 2001
For: Flexible Processing Apparatus For Isolating And Purifying
Viruses, Soluble Proteins And Peptides From Plant Sources
Group No. 2161
Attorney's Docket No. N7815

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.56, applicant hereby calls to the attention of the Patent and Trademark Office the following patents and other documents which are listed on attached Form PTO-1449.

Each document listed in this Supplemental Information Disclosure Statement was cited in a communication from the United States Patent Office in a counterpart PCT application, and this Supplemental Information Disclosure Statement is being filed within three months of the mailing date of that communication.

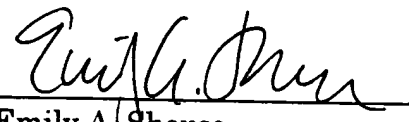
1. U.S. Patent No. 6,037,456 issued March 14, 2000, to Garger et al.
2. US2002/0088024 A1 Patent App. Pub. Garger et al., Pub. Jul. 4, 2002.
3. Lamsal et al., Separation of Protein Fractions in Alfalfa Juice: Effects of Some Pre-treatment Methods. TEKRAN. Published September 6, 2002 by the United States Department of Agriculture Agricultural Research Service.

Copies of the listed documents are attached.

Applicant respectfully requests that these references be considered by the Examiner and made of record as part of the "available prior art" under 37 C.F.R. §1.104.

The Commissioner is authorized to charge any deficiency or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 23-0035.

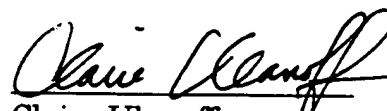
Respectfully submitted,

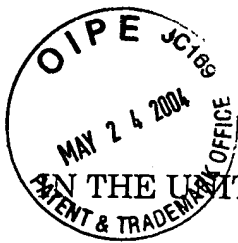

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ATTORNEY FOR APPLICANT

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Bank of America Plaza
Nashville, TN 37219
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CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this Supplemental Information Disclosure Statement is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop IDS, P.O. Box 1450, Alexandria, VA 22313-1450, on 5-1-03.


Claire Ulanoff



Applicant: Bratcher et al.
Serial No.: 09/970,150
Filed: October 3, 2001
For: Flexible Processing Apparatus For Isolating And Purifying
Viruses, Soluble Proteins And Peptides From Plant Sources
Group No. 1631
Attorney's Docket No. N7815
Customer No. 23456

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.56 and § 1.97(c), applicant hereby calls to the attention of the Patent and Trademark Office the following patents and other documents which are listed on attached Form PTO-1449.

This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final Action or a Notice of Allowance. Under the provisions of 37 C.F. R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

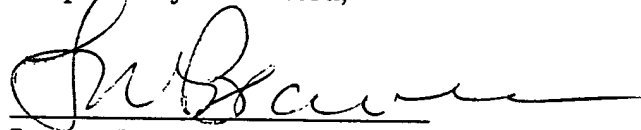
1. Project Progress Report - Chemical Efficiency of the Pilot Plant in Owensboro - Part IV; Author Jan Arnarp, October 11, 1995;
2. FOU Report No. 96/01 - Chemical Efficiency of the Pilot Plant in Owensboro - Part IV, Author Jan Arnarp, August 29, 1996.

Copies of the listed documents are attached.

Applicant respectfully requests that these references be considered by the Examiner and made of record as part of the "available prior art" under 37 C.F.R. §1.104.

The Commissioner is authorized to charge any deficiency or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 23-0035.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'L. Beavers', written over a horizontal line.

Lucian Wayne Beavers
Registration No. 28,183
WADDEY & PATTERSON
A Professional Corporation
Customer No. 23456
ATTORNEY FOR APPLICANT

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Waddey & Patterson
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CERTIFICATE OF FIRST CLASS MAILING

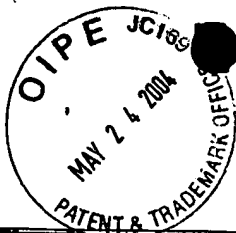
I hereby certify that this Supplemental Information Disclosure Statement, along with a check in the amount of \$180 is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 16, 2004.

Lucian Wayne Beavers

Registration No. 28,183

4/16/04

Date



Page 1 of 1

**Comparable to
Form PTO-1449**

**U.S. Department of Commerce
Patent & Trademark Office**

Atty. Docket No.

N7815

Serial No.

09/970,150

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant

Bratcher et al.

Filing Date
October 3, 2001

Group 1631
-2161

RECEIVED
MAY 13 2003
GROUP 3600

MISCELLANEOUS DOCUMENTS

US 2002/0088024 A1 Patent Application Publication, Garger et al., Pub. Date Jul. 4, 2002.

Lamsal et al., Separation of Protein Fractions in Alfalfa Juice: Effects of Some Pre-treatment Methods. TEKRAK.
Published September 6, 2002 by the United States Department of Agriculture Agricultural Research Service.

Examiner:

Date Considered

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Comparable to
Form PTO-1449

U.S. Department of Commerce
Patent & Trademark Office

Atty. Docket No.

Serial No.

N-7815

09/970,150

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant

FEB 01 2002

Bratcher et al

Technology Center 2100

Filing Date
October 3, 2001

Group Unknown 1631

Examiner Initial	Document No.	Date	Name	Class	Subclass	Filing Date If Appropriate
AM	4,268,632	May 19, 1981	Wildman et al.	435	232	
	4,333,871	Jun. 8, 1982	De Jong	260	112	
	4,347,324	Aug. 31, 1982	Wildman et al.	435	232	
	4,540,490	Sep. 10, 1985	Shibata et al.	210	323.2	
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	4,966,576	Oct. 30, 1990	Schulz et al.	494	56	
	5,121,757	Jun. 16, 1992	White et al.	131	297	
	5,131,414	Jul. 21, 1992	Fagg et al.	131	297	
	5,267,937	Dec. 7, 1993	Zettler et al.	494	56	
	5,377,698	Jan. 3, 1995	Litzinger et al.	131	370	
	5,676,631	Oct. 14, 1997	Kunz et al.	494	71	
	5,765,570	Jun. 16, 1998	Litzinger et al.	131	370	
	5,795,477	Aug. 18, 1998	Herman et al.	210	360.1	
	5,865,719	Feb. 2, 1999	Droste et al.	494	27	
5,899,845	May 4, 1999	Kohlstette et al.	494	37		
6,083,293	Jul. 4, 2000	Bath	71	16		
6,106,715	Aug. 22, 2000	Thalman et al.	210	321.83		

MISCELLANEOUS DOCUMENTS

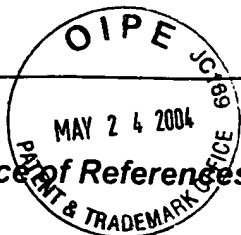
AM	Samuel Wildman, "An Alternate Use For Tobacco Agriculture: Proteins For Food Plus A Safer Smoking Material" in <u>Plants: The Potentials For Extracting Protein, Medicines And Other Useful Chemicals – Workshop Proceedings</u> (U.S. Congress, Office of Technology Assessment, OTA-BP-23, Washington, DC, September 1983).
AM	L. Jervis and W.S. Pierpoint (1989) Purification technologies for plant proteins, <u>Jour. of Biotechnology</u> 11:161-198.

Examiner:

Date Considered

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Notice of References Cited



Application/Control No.

09/970,150

Applicant(s)/Patent Under
Reexamination
BRATCHER ET AL.

Examiner

Ardin Marschel

Art Unit

1631

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-4,907,167	03-1990	Skeirik, Richard D.	700/10
	B	US-5,993,795	11-1999	Osawa et al.	424/74
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	NEW RIVERSIDE UNIVERSITY DICTIONARY, [Published by The Riverside Publishing Company and Houghton Mifflin Company, One Beacon Street, Boston, Massachusetts, 02108, USA (1984)], page 589.
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.